ThermoFlexX 80

The ThermoFlexX 80 with its maximum plate size of 1270x2030mm (50x80") is the perfect fit for the large web segment.
It's an excellent choice for ambitious printers and trade shops to make plates in the shortest time possible at highest quality.
ThermoFlexX 80 is an ideal size to handle large size plates or making large amounts of jobs together, reducing material waste to a minimum.

ThermoFlexX 80 is the ultimate flexo plate imager combining superior quality, handling and productivity.

High Quality Imaging

The new generation optical system offers superior quality thanks to a unique design using leading edge technology.
The fiber laser represents todays best technology for digital imaging, offering superior quality. The robustly designed ThermoflexX is made using heavy duty industrial components, making high speeds possible without fluctuation and vibrations. This provides the most accurate and consistent imaging quality available today.

Productivity

The new imaging system is not only built for optimum quality, but also to combine this quality with superior speeds. Productivity of 6m^2/h can be achieved at standard quality (2540dpi). This can be doubled to 12m^2, thanks to our Dual Head Imaging concept. This concept also offers a certain level of redundancy.

Ease of Use

The ThermoFlexX 80 can automatically load and unload plates with one touch of a button. Manual plate handling is one of the main causes of plate damage. With this in mind we designed the Flextray. This mobile table, which can be adjusted in height and tilted, facilitates very easy plate handling and transport.

Open

ThermoFlexX imagers excel in their choice of resolution. Any of the industry standards can be used. The ThermoFlexX imagers can be integrated with any workflow or RIP that can produce 1 bit TIFF file format. Closed file formats such as LEN-files can be converted to 1 bit TIFF. ThermoFlexX can image all digital plates, any brand, solvent and water washable or thermal processing, and is compatible with all plate making equipment.

Low Plate Waste

Clever technical innovations, such as the unique vacuum slider, demonstrate our understanding that users need to save cost and time.
No more taping for partial plates!

Motion Accuracy

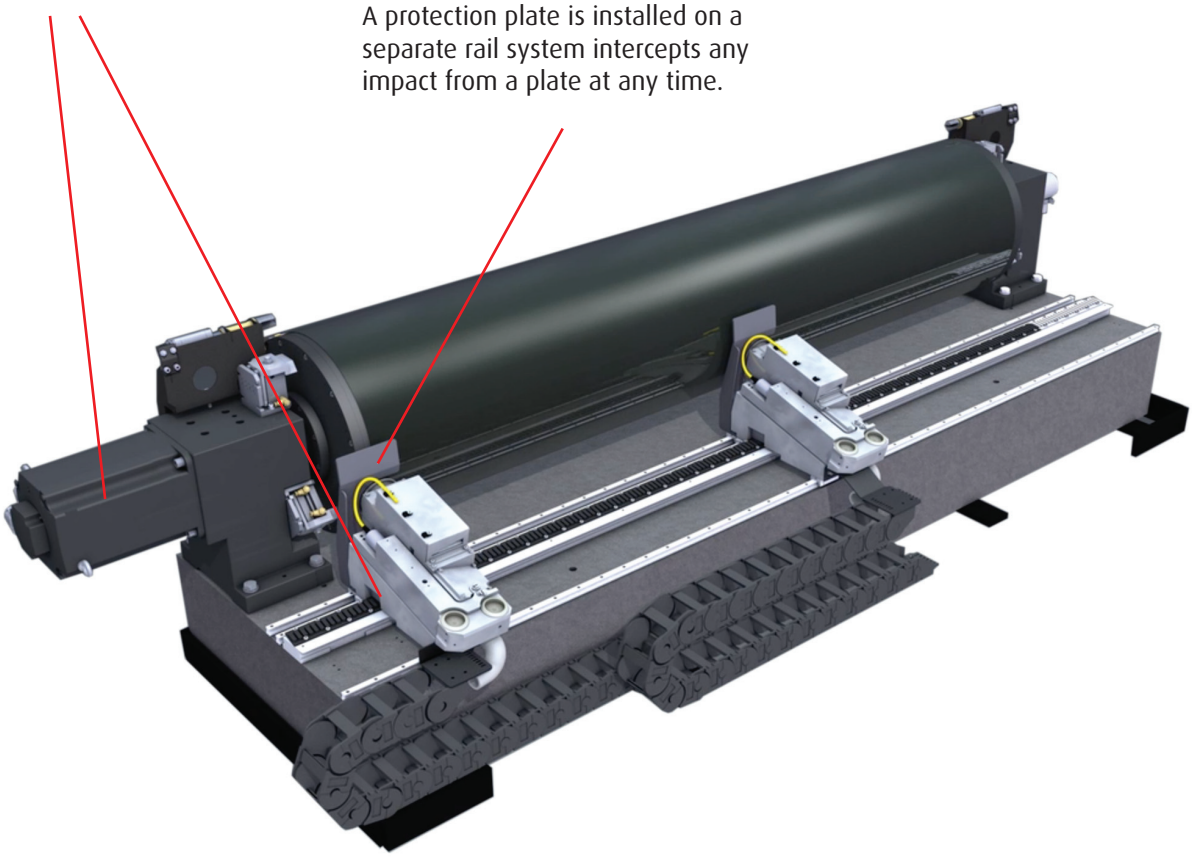
The robust design is based on a modular platform with a small footprint. The imaging system is driven by linear motors with ultimate accuracy. The direct drum drive guarantees a continuous speed without fluctuations.

Laser Protection Plate

A plate flying off because of manipulation problems can happen on any CTP. These accidents can seriously damage the imaging unit leaving it out of comission for days as a consequence. A protection plate is installed on a separate rail system intercepts any impact from a plate at any time.

Dual Head

Thanks to our optional Dual Head Imaging concept the speed can be doubled, up to 12m^2 at 2540dpi. This concept also offers a certain level of redundancy.



Auto Loading

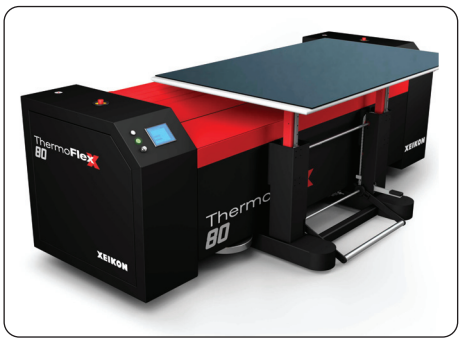
The ThermoFlexX 80 can automatically load and unload plates with one touch of a button.
An innovative guidance system makes sure that even thick plates, up to 6,35mm (0.25"), can be seamlessly mounted on the drum, and all automatically.

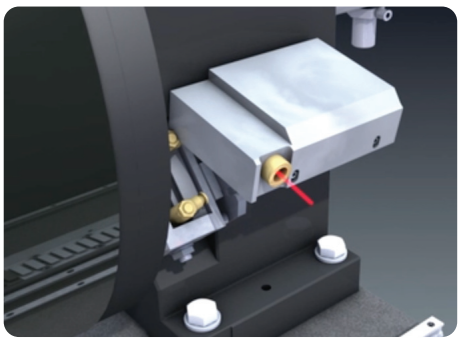
Flextray

Manual plate handling is one of the main causes of plate damage.
With this in mind we designed the Flextray.
This mobile table, which can be adjusted in height and tilted, facilitates very easy plate handling and transport.

Automatic Calibration

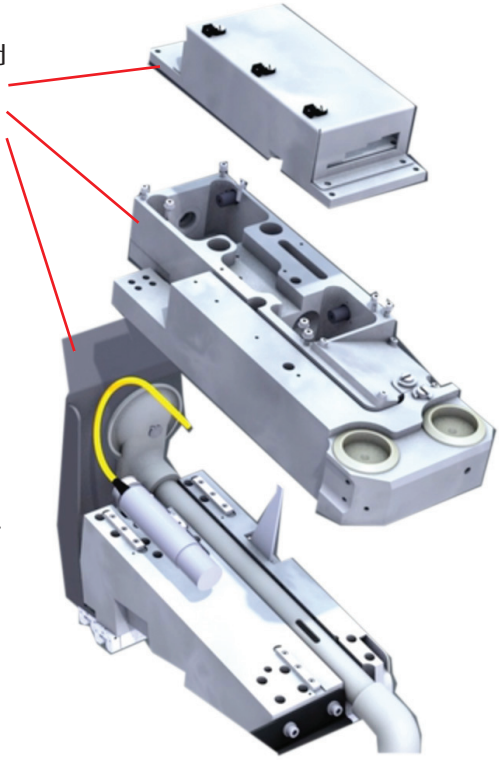
The new generation optical system offers superior quality thanks to a unique design using leading edge technology. Our standard auto-calibration system always ensures that jobs are imaged perfectly.





3 Component Imaging Head

The imaging system is built of 3 independent modules: motor, optics and laser. This flexible design allows straightforward replacement of any of the modules. It is even possible to perform optical fine tuning remotely. This makes service interventions simple and hardware upgrades logical and smooth.

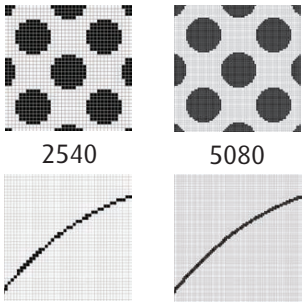


Automatic Resolution Switch

The optical system is based on 3 lenses. We use the most suitable lens for each resolution without compromise in quality. Changing resolution is performed automatically in the background.
The possibility of combining jobs of different resolutions on one plate saves time and prevents arrangement mistakes.

High Resolution

With 5080dpi resolution, we push quality standards to a higher level.
- smaller screen dots & finer details
- sharper text and line-work
- full image contrast
- greater production stability through platemaking and printing

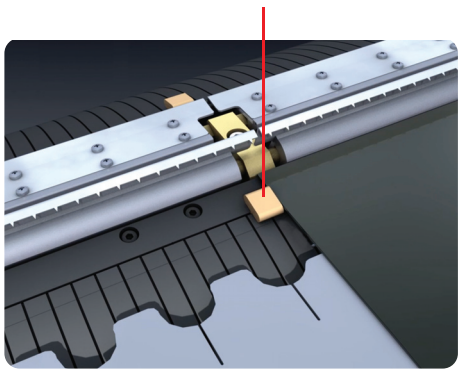


Multi Resolution

ThermoFlexX supports all 1bit TIFF format from any RIP at all standard resolutions 2400 - 2540 - 4000 - 4800 - 5080 dpi. Closed file formats such as LEN-files can be converted to 1 bit TIFF format. In the Multiplate software, TIFF's with different resolution can be combined on one plate.

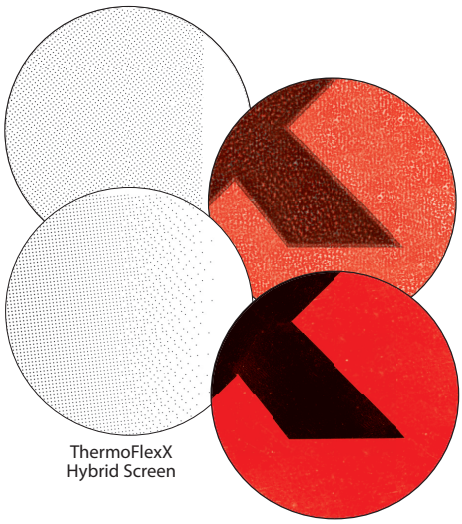
Automatic Vacuum Slider

Optimum plate handling and manipulation avoids accidental damage. The automatic vacuum slider, a unique feature on ThermoFlexX imagers, offers efficient operation for partial plates. By moving the slider to the edge of the plate the vacuum is concentrated beneath the plate, which eliminates the need for taping and foil covering and still allows full speed imaging.



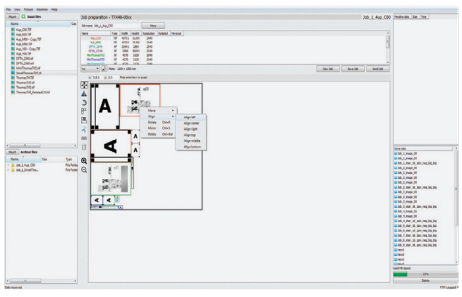
Innovative Screening

New ThermoFlexX screening technology offers superb highlights with a smooth transition to 0% tint value, while solids and linework retain excellent detail.



Multiplate

The new Multiplate 4.0 has an intuitive interface providing amazing ease of use. 1bit TIFS are arranged automatically or manually and jobs of different resolutions can be combined. The status of different jobs is intuitively presented. With the search and filter tool you can easily find any previous files, even if they are stored in an archive.

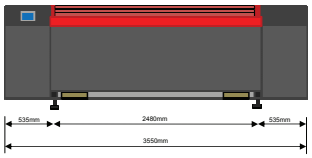


SPECIFICATIONS THERMOFLEXX 80

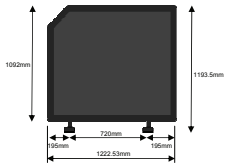
	80 E	80 S	80 D
Laser type	IPG Fiber laser 1064nm		
Laser Power	50 W	100 W	2 x 100 W
Laser Beams	15	15	15
Standard Resolution	2400 2540	2400 2540	2400 2540
High resolution	4000 4800 5080	4000 4800 5080	4000 4800 5080
Productivity 2540 dpi	3,75	6	12
Productivity 5080dpi	1,5	3	6
Image Quality	at 2540 dpi : up to 175lpi / at 5080 dpi : up to 250lpi		
Hybrid Drum option Customised register pins Customised magnetic zones	No		
Loading Table	FlexTray		
Clamping system	Automatic		
Resolution Change	Automatic lens switch		
Focus setting	Auto focus		
Plate loading	Manual / Automatic		
Partial Plate handling	Automatic Vacuum Slider		
Plate sizes (drum Y x X direction) * or smaller in X direction	1270 x 2032* mm 50 x 80"		
Plate thickness	0.73 to 6.35 mm 0.029 to 0.25"		
Mountable plate materials	Flexo plates and letterpress plates on polyester base Dry Films 0,2mm Digital Screens Gallus Screeny		
	Metal Back plates Not possible		
Applications	Labels & Flexible Packaging		
	Corrugated Packaging		
	Folding Carton		
Top & Bottom clamp space	15 mm / 0,6"		
Machine Dimensions	Width: 3550mm / 139,8" Depth: 1223mm / 48,2" Height: 1194mm / 47"		
Required Floor space	5000 x 5500 mm 197" x 216"		
Weight	2600 kg / 5730 lb		
Compressed Air	Min. 6 bar - free of oil/condensation Compressor not included - 0,5" connection		
Electrical connection	Voltage 3x400V (+/-5%), N, PE Frequency: 50 Hz -60 Hz Fuse: 20A		
	Power consumption 5,6 kVA		
Exhaust & Filter system	External exhaust carbon filter system with carbon filter		
Vacuum system	External vacuum system provided		
Operating conditions	Humidity max 70%		
	Temperature 15-26° / 59-79 F /(+/-2%)		
Multiplate Software Platform Specification	Windows 7 Professional Server 64 bit 3 Ghz Quad Core (4 cores with Hyperthreading) 32 GB RAM DVD ROM / Minimum 1 USB port for Dongle 100/1000 Network Interface 1 TB hard disk		

☐ standard ☐ optional

Front view

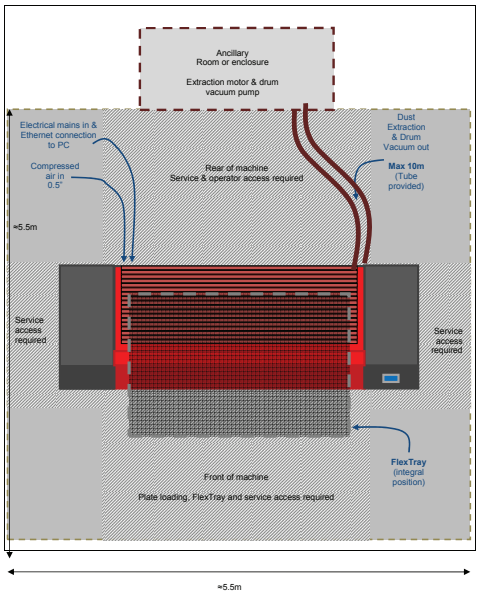


Side view

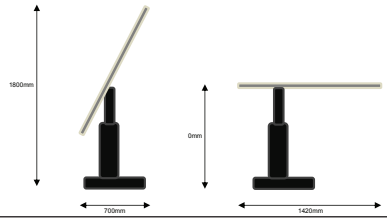


Load distribution; 4 off adjustable feet 100mm Ø

Floor Plan



FlexTray



The above mentioned specifications are valid from 01-01-2015 and overrule all previous specs. There is no legal commitment towards the specifications, due to ongoing changes of the product.

ThermoFlex 80

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XEIKON